

PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number 10/052,682

Filing Date January 17, 2002

First Named Inventor Julie WARD

Art Unit 2142

Examiner Name Hieu C. LE

Attorney Docket Number 10019569-1

**ENCLOSURES** (Check all that apply)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Fee Transmittal Form                             | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached                                     | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply                                  | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final                                      | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                        | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                        | <input type="checkbox"/> Change of Correspondence Address                 | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):         |
| <input type="checkbox"/> Express Abandonment Request                      | <input type="checkbox"/> Terminal Disclaimer                              | Two return postcards and 23 Cited References  |
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| <input type="checkbox"/> Certified Copy of Priority Document(s)           | <input type="checkbox"/> CD, Number of CD(s) _____                        |   |
| <input type="checkbox"/> Reply to Missing Parts/Incomplete Application    | <input type="checkbox"/> Landscape Table on CD                            |   |
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Remarks

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	Law Offices of Derek J. Westberg		
Signature			
Printed name	Derek J. WESTBERG		
Date	May 3, 2005	Reg. No.	40,872

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Typed or printed name	Daniel RATOFF	Date	May 3, 2005

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IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Julie WARD et al.

Confirmation No.: 3815

Application No.: 10/052,682

Examiner: Hieu C. LE

Filing Date: Jan. 17, 2002

Group Art Unit: 2142

Title: Reliability for Interconnect Fabrics

Mail Stop Amendment  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ( ) under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- (X) under 37 CFR 1.97 (c) together with either a: 05/06/2005 AWONDAF1 00000011 082025 10052682  
( ) Statement under 37 CFR 1.97(e), or 01 FC:1806 180.00 DA  
(X) a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ( ) under 37 CFR 1.97 (d) together with a:  
( ) Statement under 37 CFR 1.97(e)(1) or (2), and  
( ) a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$180.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

(X) I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: May 3, 2005

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Typed Name: Daniel RATOFF

Signature: [Signature]

Respectfully submitted,

Julie WARD et al.

By [Signature]

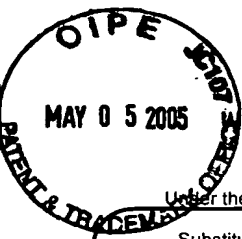
Derek J. WESTBERG

Attorney/Agent for Applicant(s)

Reg. No. 40,872

Date: May 3, 2005

Telephone No.: (408) 293-9000



PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/052,682
Filing Date	January 17, 2002
First Named Inventor	Julie WARD
Art Unit	2142
Examiner Name	Hieu C. LE
Attorney Docket Number	10019569-1

Sheet 1 of 6

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1A	US- 5,634,011-A	05-27-1997	Auerbach et al.	
	1B	US- 5,634,004-A	05-27-1997	Gopinath et al.	
	1C	US- 5,107,489-A	04-21-1992	Brown et al.	
	1D	US- 5,970,232-A	10-19-1999	Passint et al.	
	1E	US- 6,628,649-B1	09-30-2003	Raj et al.	
	1F	US- 6,614,796-B1	09-02-2003	Black et al.	
	1G	US- 5,831,996-A	11-03-1998	Abramovici et al.	
	1H	US- 5,878,232-A	03-02-1999	Peram Marimuthu	
	1I	US- 6,195,355-B1	02-27-2001	Noritoshi Demizu	
	1J	US- 6,701,327-B1	03-02-2004	Jones et al.	
	1K	US- 5,835,498-A	11-10-1998	Kim et al.	
	1L	US- 4,920,487-A	04-24-1990	Paul T. Baffes	
	1M	US- 5,329,619-A	07-12-1994	Pagé et al.	
	1N	US- 5,113,496-A	05-12-1992	McCalley et al.	
	1O	US- 6,594,701-B1	07-15-2003	Alessandro Forin	
	1P	US- 6,557,169-B1	04-29-2003	Bernard Erpeldinger	
	1Q	US- 6,766,381-B1	07-20-2004	Barker et al.	
	1R	US- 6,253,339-B1	06-26-2001	Tse et al.	
	1S	US- 6,701,327-B1	03-02-2004	Jones et al.	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	1T	WO-96/17458-A	06-06-1996	British Telecommunications Public Limited Company		

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/052,682
Filing Date	January 17, 2002
First Named Inventor	Julie WARD
Art Unit	2142
Examiner Name	Hieu C. LE
Attorney Docket Number	10019569-1

Sheet 2 of 6**U. S. PATENT DOCUMENTS**

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	2A	US- 5,524,212-A	06-04-1996	Somani et al.	
	2B	US- 6,603,769-B1	08-05-2003	Thubert et al.	
	2C	US- 6,757,731-B1	06-29-2004	Barnes et al.	
	2D	US- 6,148,000-A	11-14-2000	Feldman et al.	
	2E	US- 6,611,872-B1	08-26-2003	Steven McCanne	
	2F	US- 5,857,180-A	01-05-1999	Hallmark et al.	
	2G	US- 5,307,449-A	04-26-1994	Keiley et al.	
	2H	US- 5,651,005-A	07-22-1997	Kwok et al.	
	2I	US- 6,141,355-A	10-31-2000	Palmer et al.	
	2J	US- 5,838,919-A	11-17-1998	Schwaller et al.	
	2K	US- 6,038,219-A	03-14-2000	Mawhinney et al.	
	2L	US- 6,668,308-B2	12-23-2003	Barroso et al.	
	2M	US- 6,570,850-B1	05-27-2003	Gutierrez et al.	
	2N	US- 6,363,334-B1	03-26-2002	Andrews et al.	
	2O	US- 6,108,782-A	08-22-2000	Fletcher et al.	
	2P	US- 6,539,531-B2	03-25-2003	Miller et al.	
	2Q	US- 5,138,657-A	08-11-1992	Colton et al.	
	2R	US- 6,331,905-B1	12-18-2001	Ellinas et al.	
	2S	US- 6,003,037-A	12-14-1999	Kassabgi et al.	

**FOREIGN PATENT DOCUMENTS**

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Application Number	10/052,682
Filing Date	January 17, 2002
First Named Inventor	Julie WARD
Art Unit	2142
Examiner Name	Hieu C. LE
Attorney Docket Number	10019569-1

Sheet 3 of 6**U. S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
	3A	US- 5,245,609-A	09-14-1993	Ofek et al.	
	3B	US- 5,805,578-A	09-08-1993	Stirpe et al.	
	3C	US- 6,047,199-A	04-04-2000	DeMarco	
	3D	US- 5,581,689-A	12-03-1996	Slominski et al.	
	3E	US- 5,815,402-A	09-29-1998	Taylor et al.	
	3F	US- 6,157,645-A	12-05-2000	Shobatake	
	3G	US- 6,212,568-B1	04-03-2001	Miller et al.	
	3H	US- 2003-0145294 A1	07-31-2003	Ward et al.	
	3I	US- 2003-0065758 A1	04-03-2003	O'Sullivan et al.	
	3J	US- 2002-0083159 A1	06-27-2002	Ward et al.	
	3K	US- 6,031,984-A	02-29-2000	Walser	
	3L	US- 6,526,420-B2	02-25-2003	Borowsky et al.	
	3M	US- 2005-0021583-A1	01-17-2005	Andrzejak et al.	
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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		Filing Date	January 17, 2002		
		First Named Inventor	Julie WARD		
		Art Unit	2142		
		Examiner Name	Hieu C. LE		
Sheet	4	of	6	Attorney Docket Number	10019569-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	4A	Mathew ANDREWS et al., Integrated Scheduling of Unicast and Multicast Traffic in an Input-Queued Switch, 1999. < <a href="http://cm.bell-labs.com/cm/ms/who/andrews/infocom99switch.ps">http://cm.bell-labs.com/cm/ms/who/andrews/infocom99switch.ps</a> >	
	4B	Viraphol CHAIYAKUL, Assignment Decision Diagram for High-Level Synthesis, 1992.	
	4C	Andre DEHON, Notes on Coupling Processors with Reconfigurable Logic, MIT Transit Project, Transit Note #118, 1995.	
	4D	Cathy FULTON et al., Impact Analysis of Packet-Level Scheduling On an ATM Shared-Memory Switch, Infocom, Volume 3 pp. 947-954, 1998, IEEE, New York, NY.	
	4E	Hiroshi INOSE, An Introduction to Digital Integrated Communication Systems, pages 87-89, 1979, Peter Peregrinus Ltd., Stevenage, United Kingdom.	
	4F	A. Richard NEWTON, Interface-Based Design; Introduction, University of California at Berkeley, April 1999.	
	4G	Derek C. W. PAO, A Congestion Control Algorithm for Multipoint-to-Multipoint ABR Service in ATM Network, Proceedings of the IEEE Conference on High Performance Switching and Routing, pp. 167-175, June 26, 2000, IEEE Press, New York, NY.	
	4H	Rainer SCHOENEN et al., Weighted Arbitration Algorithms with Priorities for Input-Queued Switches with 100% Throughput, 1999, < <a href="http://www.iss.rwth-aachen.de/Projekte/Theo/papers/Schoenen99bssw.ps.gz">http://www.iss.rwth-aachen.de/Projekte/Theo/papers/Schoenen99bssw.ps.gz</a> >	
	4I	Oryal TANIR et al., Structural Reuse In The Design Of ATM Switch Fabrics, 1997.	
	4J	I. WIDJAJA et al., Performance Issues in VC-Merge Capable ATM LSRs, RFC 2682, September 1999, The Internet Society, Reston, VA.	

Examiner Signature		Date Considered	
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	5A	Julie WARD, US Patent Application No.: 09/707,227, Filing Date: November 6, 2000.	
	5B	D. KLINGMAN et al. Netgen: A Program for Generating Large Scale Capacitated Assignment, Transportation, and Minimum Cost Flow Network Problems, Management Science 20(5):814-821, 1974, The Institute Of Management Sciences, Providence, RI.	
	5C	Dimitri P. BERTSEKAS, Linear Network Optimization: Algorithms and Codes, pages 253-260, 1991, The MIT Press, Cambridge, MA.	
	5D	Julie WARD et al., Appia: Automatic Storage Area Network Fabric Design, Conference on File and Storage Technologies (FAST'02), pp. 203-217, January 28, 2002, Usenix, Berkeley, CA.	
	5E	Staffan Bo STRAND, Storage Area Networks and SANTK, Thesis, December 2001, University of Minnesota, Minneapolis, MN.	
	5F	Matthew T. O'KEEFE et al., Designing Fibre Channel Storage Area Networks, February 2001. < <a href="http://www.borg.umn.edu/fc/papers/SANTK.pdf">http://www.borg.umn.edu/fc/papers/SANTK.pdf</a> >	
	5G	Robert E. BIXBY, Solving Real-World Linear Programs: A Decade and More of Progress, January 2002.	
	5H	Ravindra K. AHUJA et al., Network Flows: Theory, Algorithms, and Applications, pp. 4-9, 649-686, 1993, Prentice-Hall, Upper Saddle River, NJ.	
	5I	Christodoulos A. FLOUDAS et al., Quadratic Optimization, 1995.	
	5J	Parameswaran RAMANATHAN et al., Resource Placement with Multiple Adjacency Constraints in k-ary n-Cubes, 1995.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number	10/052,682		
		Filing Date	January 17, 2002		
		First Named Inventor	Julie WARD		
		Art Unit	2142		
		Examiner Name	Hieu C. LE		
Sheet	6	of	6	Attorney Docket Number	10019569-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	6A	Staffan STRAND, Automatic Generation of Core/Edge Topology SANs Using SANTK, May 23, 2002.	
	6B	Joachim P. WALSER, Solving Linear Pseudo-Boolean Constraint Problems with Local Search, 1997, American Association for Artificial Intelligence, Menlo Park, CA.	

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